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1. Document ID: US 6879341 B1

L4: Entry 1 of 3

File: USPT

Apr 12, 2005

US-PAT-NO: 6879341

DOCUMENT-IDENTIFIER: US 6879341 B1

TITLE: Digital camera system containing a VLIW vector processor

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 348/231.6; 348/207.99, 348/222.1, 712/11

ABSTRACT:

A digital camera has a sensor for sensing an image, a processor for modifying the sensed image in accordance with instructions input into the camera and an output for outputting the modified image where the processor includes a series of processing elements arranged around a central crossbar switch. The processing elements include an Arithmetic Logic Unit (ALU) acting under the control of a writeable microcode store, an internal input and output FIFO for storing pixel data to be processed by the processing elements and the processor is interconnected to a read and write FIFO for reading and writing pixel data of images to the processor. Each of the processing elements can be arranged in a ring and each element is also separately connected to its nearest neighbors. The ALU receives a series of inputs interconnected via an internal crossbar switch to a series of core processing units within the ALU and includes a number of internal registers for the storage of temporary data. The core processing units can include at least one of a multiplier, an adder and a barrel shifter. The processing elements are further connected to a common data bus for the transfer of a pixel data to the processing elements and the data bus is interconnected to a data cache which acts as an intermediate cache between the processing elements and a memory store for storing the images.

7 Claims, 232 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 152

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examiner DSC	Attachments	Claims	KMPC	Drawn D
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2. Document ID: US 6857719 B2

L4: Entry 2 of 3

File: USPT

Feb 22, 2005

US-PAT-NO: 6857719

DOCUMENT-IDENTIFIER: US 6857719 B2

TITLE: Printing cartridge with pressure sensor array identification

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Balmain			AU

US-CL-CURRENT: 347/17

ABSTRACT:

A printing cartridge includes a housing. An array of pressure sensor actuators is positioned on the housing. The array of pressure sensor actuators represents data relating to at least one of: a serial number of the cartridge, a media and a media colorant so that when a pressure sensor array is actuated by the array of pressure sensor actuators, a signal carrying such data can be generated.

37 Claims, 244 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 151

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn D
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 3. Document ID: US 6850274 B1

L4: Entry 3 of 3

File: USPT

Feb 1, 2005

US-PAT-NO: 6850274

DOCUMENT-IDENTIFIER: US 6850274 B1

TITLE: Image texture mapping camera

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Lapstun; Paul	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 348/239; 348/207.2, 348/222.1

ABSTRACT:

A camera and method for the creation of texturing effects in output images. The camera includes a sensor for sensing an image and a texture mapper for adding texturing effect to the sensed image to produce a textured image. The camera also includes a display for displaying the textured image. In one form, the display is a printer for printing out immediate photos by the camera.

7 Claims, 233 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 140

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